Performance Data Sheet

AVA5538EXT

General Information

Model	AVA5538EXT	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	230V 3~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	10800	10000					
	Watts	1420	1460					
	Amps	5.35	5.43					
	Lb/h	140	135					
-10	Btu/h	12300	11300	10200				
	Watts	1500	1550	1590				
	Amps	5.47	5.59	5.63				
	Lb/h	158	151	143				
-5	Btu/h	14300	13000	11800	10500			
	Watts	1590	1650	1700	1730			
	Amps	5.61	5.77	5.85	5.86			
	Lb/h	181	173	163	152			
0	Btu/h	16700	15300	13800	12400	10900		
	Watts	1680	1760	1820	1870	1880		
	Amps	5.76	5.96	6.09	6.15	6.14		
	Lb/h	211	201	190	177	163		
5	Btu/h	19600	17900	16300	14600	12900		
	Watts	1770	1870	1950	2010	2040		
	Amps	5.91	6.16	6.34	6.45	6.49		
	Lb/h	246	234	222	207	192		
10	Btu/h	22900	21000	19100	17200	15300	13400	11500
	Watts	1860	1980	2080	2150	2210	2230	2220
	Amps	6.06	6.36	6.59	6.75	6.85	6.89	6.86
	Lb/h	286	273	259	243	226	207	187
15	Btu/h	26600	24500	22400	20300	18100	15900	13800
	Watts	1950	2080	2200	2300	2370	2420	2430
	Amps	6.20	6.55	6.83	7.05	7.21	7.31	7.35
	Lb/h	330	316	301	284	265	245	223
20	Btu/h	30700	28400	26000	23700	21200	18800	16400
	Watts	2020	2170	2310	2440	2530	2600	2640
	Amps	6.33	6.73	7.07	7.35	7.57	7.74	7.84
	Lb/h	379	364	347	329	309	287	264

25	Btu/h	35200	32600	30000	27400	24700	22100	19400
	Watts	2090	2260	2420	2570	2690	2780	2850
	Amps	6.45	6.90	7.29	7.63	7.91	8.15	8.33
	Lb/h	432	415	397	378	357	334	309
30	Btu/h	40000	37200	34300	31400	28500	25600	22600
	Watts	2140	2330	2510	2680	2830	2950	3050
	Amps	6.54	7.04	7.49	7.89	8.24	8.55	8.80
	Lb/h	488	470	451	431	408	384	358
35	Btu/h	45100	42000	38900	35800	32600	29400	26200
	Watts	2170	2380	2590	2790	2960	3110	3230
	Amps	6.60	7.16	7.67	8.13	8.55	8.92	9.25
	Lb/h	547	529	508	487	463	438	410
40	Btu/h	50500	47200	43800	40400	36900	33400	29900
	Watts	2180	2420	2650	2870	3080	3260	3410
	Amps	6.63	7.25	7.82	8.35	8.83	9.28	9.68
	Lb/h	610	590	569	546	521	494	466
45	Btu/h	56200	52600	48900	45200	41500	37700	33900
	Watts	2160	2430	2690	2940	3170	3380	3560
	Amps	6.63	7.30	7.93	8.53	9.08	9.60	10.1
	Lb/h	674	654	631	608	582	554	524
50	Btu/h	62200	58200	54300	50300	46200	42200	38100
	Watts	2120	2410	2700	2980	3240	3480	3700
	Amps	6.58	7.31	8.01	8.67	9.29	9.89	10.4
	Lb/h	741	720	696	671	645	616	585
55	Btu/h	68300	64100	59800	55500	51200	46900	42500
	Watts	2050	2370	2680	2990	3290	3560	3810
	Amps	6.47	7.27	8.03	8.76	9.46	10.1	10.8
	Lb/h	809	787	763	737	710	680	648

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.635708E+04	1.015914E+03	1.351728E+00	2.630817E+02
C2	8.565630E+02	2.923185E+00	-1.357634E-02	8.422588E+00
C3	-9.201979E+01	2.195577E+00	8.652784E-02	-4.965194E-01
C4	1.030241E+01	-1.710330E-01	-1.790671E-04	9.870710E-02
C5	-3.888606E+00	9.630292E-02	2.382259E-04	-2.133620E-02
C6	-4.603641E-01	1.452880E-01	-4.025994E-04	-2.132951E-04
C7	-3.099491E-02	-4.286506E-03	-7.120642E-06	-4.935003E-04
C8	-1.538581E-02	2.402820E-03	3.277509E-06	1.157785E-04
C9	-1.949807E-03	1.223892E-03	3.835747E-06	-4.331459E-05
C10	1.267111E-03	-8.638976E-04	1.148846E-07	-2.170632E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature